

Proposal Full View

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Applicant Information

Organization Name City of Escondido *

Tax ID 956000708

Proposal Name The City of Escondido - Lake Wohlford Dam Replacement Project *

Proposal Objective This Proposition 1E Stormwater Flood Management Grant Proposal contains one high-priority project: the Lake Wohlford Dam Replacement Project. This project addresses flooding, water supply, water quality, and recreational issues within and downstream of Lake Wohlford. The proposed project would construct an earth-core rockfill dam to replace the existing 114-year old Lake Wohlford Dam, which was originally constructed in 1895. The existing Lake Wohlford Dam has been deemed seismically unsound by the Federal Energy Regulatory Commission and the California Division of Safety of Dams, and could fail even in a relatively small seismic event. Due to seismic-related safety issues, the City of Escondido is required to retain Lake Wohlford at 2,800 AF, well below its 6,500 AF capacity. The objective of this proposal is to construct a new dam and eliminate seismic-related flood risks associated with the existing dam. Due to the location of Lake Wohlford, if the Lake Wohlford Dam were to fail, it would generate extreme flooding hazards to a large portion of northern San Diego County. Replacing the dam would also allow the City of Escondido to increase water levels within the lake to its design capacity of 6,500 AF. In addition to addressing flood risks, this project would provide water supply, water quality, and recreational benefits associated with Lake Wohlford. Lake Wohlford provides the City of Escondido with local water supplies, and increasing the capacity of Lake Wohlford would increase the operational efficiency and reliability of this local water source. In addition, Lake Wohlford provides substantial recreational opportunities to local and regional residents. Water quality benefits would be realized, because potential failure of Lake Wohlford Dam would generate extreme water quality issues within several water bodies that are already impaired. *

Budget

Other Contribution	\$0.00
Local Contribution	\$15,798,100.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested	\$14,900,000.00 *
Total Project Cost	\$30,698,100.00 *

Geographic Information

Latitude * DD(+/-) 33 MM 10 SS 2

Longitude * DD(+/-) -117 MM 0 SS 18

Values are represented in degrees, minutes, and seconds. Note: BMS seconds (SS) allowed only whole numbers, however Latitude SS is 1.5594 and Longitude SS is 17.6754

Longitude/Latitude Clarification Location San Diego IRWM Region

County San Diego *

Ground Water Basin Escondido Valley, San Elijo Valley

Hydrologic Region South Coast

Watershed Carlsbad

Legislative Information

Assembly District 74th Assembly District, 75th Assembly District *

Senate District 36th Senate District, 38th Senate District *

US Congressional District District 49 (CA), District 50 (CA) *

Project Information

Project Benefits Information

Project Name Lake Wohlford Dam Replacement Project

Project Benefit Type	Benefit Type	Measurement	Description
			This project would provide flood protection to all residents, structures, and ecosystems within the current flood inundation zone associated with seismic-induced failure of the existing 114-year old Lake

Primary	Flood Protection	44734.62	Wohlford Dam. This proposal demonstrates that the current flood inundation zone would be substantial, and would span from inland Escondido west to the Pacific Ocean. This project would replace the existing Lake Wohlford Dam with a new earth-core rockfill dam that would not be susceptible to failure during a maximum probable earthquake occurring on the most nearby fault zone, the Elsinore Fault. This flood protection benefit has been quantified and monetized for purposes of this grant proposal.
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Budget

Other Contribution	0
Local Contribution	15798100
Federal Contribution	0
Inkind Contribution	0
Amount Requested	14900000
Total Project Cost	30698100

Geographic Information

Latitude DD(+/-)	33	MM 10	SS 2
Longitude DD(+/-)	-117	MM 0	SS 18
Longitude/Latitude Clarification	Values are represented in degrees, minutes, and seconds. Note: MBS seconds (SS) all		

County	San Diego
Ground Water Basin	Escondido
Hydrologic Region	South Coast
WaterShed	Carlsbad

Legislative Information

Assembly District	74th Assembly District, 75th Assembly District
Senate District	36th Senate District, 38th Senate District
US Congressional District	District 49 (CA), District 50 (CA)

Section : Applicant Information Question Tab**APPLICANT INFORMATION QUESTION TAB****Q1. PROPOSAL DESCRIPTION**

Provide a brief abstract of the Proposal, including a listing of individual project titles or types.

The City of Escondido is committed to implementing the goals and objectives established in the San Diego IRWM Plan through implementation of the Lake Wohlford Dam Replacement Project. This project would provide multiple benefits to the region, including flood management, water supply reliability, water quality improvements, habitat enhancement, and expansion of recreational opportunities. The Lake Wohlford Dam Replacement Project would replace the existing Lake Wohlford Dam, which is 114 years old and seismically unsound, with a new dam immediately downstream of the existing dam. The original seventy-six foot tall dam at Lake Wohlford was constructed in 1895 to store water from the San Luis Rey River via the Escondido Canal. In 1924, the dam height was raised an additional twenty-four feet using hydraulic fill material. The Lake

Wohlford Dam provides flood control protection to populated areas downstream of Lake Wohlford, and provides a source of local drinking water supply. However, the current dam is not considered seismically sound by the Federal Energy Regulatory Commission or the State Division of Safety of Dams, and could fail even in a small earthquake. Lake Wohlford Dam supplies approximately 28% of the City of Escondido's water supply, and provides water to an additional 120,000 customers within the Vista Irrigation District's service area. Despite existing and past drought conditions within San Diego County, the City of Escondido is required to lower water levels in Lake Wohlford to 43% of its built storage capacity so that it is safe during a maximum credible earthquake. The objective of the Lake Wohlford Dam Replacement Project is to replace the existing Lake Wohlford Dam, thereby reducing seismic-related hazards and assuring that the dam would not fail during a seismic event. This would allow the

City of Escondido to restore Lake Wohlford to its built storage capacity, thereby substantially increasing the reliability of the local water supply. By improving seismic stability of Lake Wohlford Dam, this project would also improve stormwater capture and increase the reliability of Lake Wohlford, which would in turn increase the reliability of the San Diego IRWM Region's local water supply. In addition, by reducing seismic-related flooding hazards, this project would reduce water quality issues that would be associated with failure of Lake Wohlford Dam. Failure of the existing Lake Wohlford Dam would generate large amounts of scour, erosion, and sedimentation, which would further impair downstream water bodies such as Escondido Creek and the San Elijo Lagoon. Lastly, Lake Wohlford has been a historical recreational destination for fishing, hiking, camping, and other purposes. This proposal, by increasing the capacity of Lake Wohlford, would serve to enhance local recreational uses and aquatic habitats.

Q2. PROJECT DIRECTOR

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Lori Vereker Director of Utilities City of Escondido 201 North Broadway Escondido, CA 92025 (760) 839-4090 Lvereker@ci.escondido.ca.us

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Craig Whittemore Deputy Director of Utilities Construction and Maintenance City of Escondido 1521 South Hale Avenue Escondido, CA 92025 (760) 839-4038 Cwhittemore@ci.escondido.ca.us

**Q4. APPLICANT
INFORMATION**

Provide the agency name, address, city, state, and zip code of the applicant submitting the application. Also provide the name and contact information of the person filling out the online application.

City of Escondido 201 North Broadway Escondido, CA 92025 (760) 839-4030

**Q5. ADDITIONAL
INFORMATION**

Provide the funding area(s) in which projects are located.

http://www.water.ca.gov/irwm/integregio_fundingarea.cfm

The proposed project is located within the San Diego Funding Area.

**Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD
(S)**

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

http://www.waterboards.ca.gov/waterboards_map.shtml

The San Diego IRWM Region lies within the San Diego Regional Water Quality Control Board (Region 9).

**Q7.
ELIGIBILITY**

Is the application from an IRWM planning region approved in the RAP (See Section II B, Table 1)? If yes, include the name of the IRWM planning region. If not, explain.

Yes. The application is for a proposal within the San Diego IRWM Region, which was approved in the 2009 RAP cycle.

**Q8.
ELIGIBILITY**

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

Yes. As described in Attachment 1, the City of Escondido is a local agency as described in Appendix B of the Guidelines.

**Q9.
ELIGIBILITY**

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q10 and Q11.

The City of Escondido is a urban water supplier, and is the only agency that will receive funding from the proposed grant application. Self certificaion forms for the City of Escondido have been submitted with the proposal.

**Q10.
ELIGIBILITY**

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q9, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

Yes. The City of Escondido has submitted and received verification of a complete 2005 UWMP by DWR. The City of Escondido will submit an updated 2010 UWMP consistent with the 2010 Guidebook by the July 1, 2011 deadline.

**Q11.
ELIGIBILITY**

Have any urban water suppliers listed in Q9 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the Guidelines for additional information.

The City of Escondido is an urban water supplier, and is the only agency that will receive funding from the proposed grant application. AB 1420 compliance tables and supporting documentation for the City of Escondido have been submitted with the proposal.

**Q12.
ELIGIBILITY**

Does the Proposal include any groundwater management or groundwater recharge projects or projects with potential groundwater impacts? If so, provide the name(s) of the project (s) and list the agency(ies) that will implement the project(s).

No.

**Q13.
ELIGIBILITY**

For the agency(ies) listed in Q12, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section III.B of the Grant Guidelines?

N/A.

**Q14.
ELIGIBILITY**

an IRWM Plan that includes the Stormwater Resources Plan requirements specified in Section 10562 of the Water Code? Please answer yes or no. If yes, please answer Question 15 or 16, as applicable.

- a) Yes
- b) No

Q15:
ELIGIBILITY

For applicants with a Stormwater Resources Plan, does that Plan meet the standards set forth in Part 2.3 of Division 6 of the CWC? If yes, provide attachment 13.

- a) Yes
- b) No

Q16:
ELIGIBILITY

For applicants with an IRWM Plan, does that Plan include the Stormwater Resources Plan requirements specified in Section 10562 of the CWC? If yes, provide attachment 13.

- a) Yes
- b) No

NOTES TO BMS
ADMINISTRATOR

Provide notes about any potential problems you may have had with BMS that are particular to your application.

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY
REQUIREMENTS

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att1_SWF_CityofEscondido_Eligible_1of1.pdf

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here.

ATTACHMENT 2: ADOPTED PLAN AND PROOF OF FORMAL
ADOPTION

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att2_SWF_CityofEscondido_Adopt_1of1.pdf

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

Upload additional Proof of Formal Adoption documentation here.

ATTACHMENT
3: WORK PLAN

Upload the Work Plan here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att3_SWF_CityofEscondido_WorkPlan_1of1.pdf

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

Upload additional work plan components here.

ATTACHMENT 4:
BUDGET

Upload the Budget here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att4_SWF_CityofEscondido_Budget_1of1.pdf

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

Upload additional budget components here.

**ATTACHMENT 5:
SCHEDULE**

Upload the Schedule here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att5_SWF_CityofEscondido_Schedule_1of1.pdf

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

Upload additional schedule components here.

**ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE
MEASURES**

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att6_SWF_CityofEscondido_Measures_1of1.pdf

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

Upload additional Monitoring, Assessment, and Performance Measures here.

**ATTACHMENT 7: ECONOMIC ANALYSIS - FLOOD DAMAGE REDUCTION COSTS AND
BENEFITS**

Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att7_SWF_CityofEscondido_DReduc_1of1.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

**ATTACHMENT 8: ECONOMIC ANALYSIS - WATER SUPPLY COSTS AND
BENEFITS**

Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att8_SWF_CityofEscondido_WSBen_1of1.pdf

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Upload additional - Water Supply Costs and Benefits documentation here.

Section : Application Attachments Tab (cont)

APPLICATION ATTACHMENTS TAB (CONT)

**ATTACHMENT 9: WATER QUALITY AND OTHER EXPECTED
BENEFITS**

Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att9_SWF_CityofEscondido_WQOtherBen_1of1.pdf

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

ATTACHMENT 10: COSTS AND BENEFITS SUMMARY

Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att10_SWF_CityofEscondido_CBSummary_1of1.pdf

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

ATTACHMENT 11: PROGRAM PREFERENCES

Upload Program Preference documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att11_SWF_CityofEscondido_Preference_1of1.pdf

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

ATTACHMENT 12: AB1420 AND WATER METER COMPLIANCE INFORMATION

Upload AB1420 and Water Meter Compliance Information here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att12_SWF_CityofEscondido_AB1420_1of1.pdf

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

ATTACHMENT 13: STORMWATER RESOURCES PLAN

This attachment is only necessary if the applicant has an existing Stormwater Resources Plan, pursuant (commencing with Section 10560) of Division 6 of the Water Code and answered "yes" to Q15 or Q16.

The summary text must be no more than 5 pages in length using a minimum of 10-point type font. Excerpts from the Plan must not exceed 15 pages.

Attachment 13 must provide the following:

Identify and include portions of the applicable Plan that demonstrate all of the standards of Part 2.3 (commencing with Section 10560) of Division 6 of the CWC.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.